

Assignment for Class IX Chapter : HERONS FORMULA

CLASS: IX

SUBJECT: MATHEMATICS

1. Find the area of a triangle, two sides of which are 18cm, and 10cm and the perimeter is 42cm
2. Find the area of an equilateral triangle one of whose sides measure a cm, using heron's formula
3. An isosceles triangle has perimeter 30cm and each of the equal sides is 12cm. Find the area of the triangle
4. Sides of a triangle are in the ratio 12: 17: 25 and its perimeter is 540 cm. Find its area
5. A rhombus shaped field has green grass for 18 cows to graze. If each side of the rhombus is 30 m and its Longer diagonal is 48 m, how much area of grass field will each cow be grazing
6. Two parallel sides of a trapezium are 60 cm and 77 cm and the other sides are 25 cm 26 cm. find the area of the trapezium
7. Two parallel sides of a trapezium are 120cm and 154cm and other sides are 50cm and 52cm. Find the area of the trapezium (6576cm²)
8. The perimeter of a right triangle is 12 cm and its hypotenuse is 5 cm. Find its area (6cm²)
9. The lengths of two adjacent sides of a parallelogram are 51cm and 37cm and one of its diagonal is 20cm. Find Its area (612 cm²)
10. A triangle and a parallelogram have the same base and the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram stands on the same base 28cm, find the height of the parallelogram
11. Find the area of a quadrilateral ABCD in which AB = 3cm, BC = 4cm, CD = 6cm, DA = 5cm and diagonal AC = 5cm (18 cm²)
12. Find the area of a quadrilateral PQRS if PQ = 8cm, QR = 6cm, RS = 14cm, PS = 16cm and diagonal PR= 10cm (24 + 40√3)
13. Find the semi-perimeter of a triangle whose sides are 26cm, 28cm and 30cm (42cm)
14. The perimeter of a triangle is 240cm. If two of its sides are 78cm and 50cm. Find the length of perpendicular On the sides of length 50cm from opposite vertex (67.2)
15. An Isosceles triangle has perimeter 45cm and each of equal side be 16cm. Find area of triangle and length of Altitudes in form of square root (39√95/4)